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APPLICATION NO.	FI	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/825,618 04/03/2001		04/03/2001	Roberto Ciaff	FHW-076	3283	
959	7590	01/28/2004	EXAMINER			
LAHIVE &	COCKF	TELD, LLP.	BRADFORD, I	BRADFORD, RODERICK D		
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BOSTON, M	1A 0210	19	ART UNIT	PAPER NUMBER		
•				3762	11	
				DATE MAIL ED. 01/29/200	DATE MAIL ED: 01/29/2004	

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Please find below and/or attached an Office communication concerning this application or proceeding.

%		Арр	lication No.	Applicant(s)						
Office Action Summary			825,618	CIAFF, ROBERTO						
			miner	Art Unit						
		Rod	erick Bradford	3762						
Period fo	The MAILING DATE of this communi or Reply	cation appears	on the cover sheet	with the correspondence add	ress					
A SH THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOMAILING DATE OF THIS COMMUNION in sions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this comminate period for reply specified above is less than thirty (30) period for reply is specified above, the maximum stare to reply within the set or extended period for reply eply received by the Office later than three months after a patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In unication. of days, a reply within the lutory period will apply will, by statute, cause	n no event, however, may the statutory minimum of the y and will expire SIX (6) Months the application to become	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this con ABANDONED (35 U.S.C. § 133).	nmunication.					
1)⊠	Responsive to communication(s) file	d on <u>03 Novem</u>	<u>ber 2003</u> .							
2a) <u></u> □	This action is FINAL . 2b)⊠ This action is non-final.									
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.									
Dispositi	ion of Claims									
5)□ 6)⊠ 7)□	4a) Of the above claim(s) 1,2 and 4-2 Claim(s) is/are allowed. Claim(s) 3 and 25-31 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restrict			ition.						
Applicati	ion Papers									
10)	The specification is objected to by the The drawing(s) filed on is/are: Applicant may not request that any object Replacement drawing sheet(s) including The oath or declaration is objected to	a) accepted accepted tion to the drawir the correction is	ng(s) be held in abey required if the drawir	ance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFF						
Priority u	ınder 35 U.S.C. §§ 119 and 120									
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. 										
Attachmen	e of References Cited (PTO-892)		4) 🔲 Interviev	v Summary (PTO-413) Paper No(s)	/· ·					
2) Notic	te of Draftsperson's Patent Drawing Review (Pimation Disclosure Statement(s) (PTO-1449) Pa			f Informal Patent Application (PTO-						

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DETAILED ACTION

Election/Restrictions

1. Claims 1, 2 and 4-24 are withdrawn from further consideration pursuant to 37

CFR 1.142(b) as being drawn to a nonelected group, there being no allowable generic or linking claim. Election was made without traverse in Paper No. 10.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 27 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Palermo et al. U.S. Patent No. 5,562,718 in view of Cheney U.S. Patent No. 1,557,417.

Referring to claim 1, Palermo discloses a control module for controlling the parameters of an electrical pulse suitable for innervating nerves and tissue (10), and one or more conductor tools for delivering the electrical pulse to the nerves (Fig. 1), wherein the control module is configured to enable the adjustment of the width of the electrical pulse at levels in the range 1/30000 (33µs) to 1/7500 (132µs) (Figs. 4a and 4b) and pulse repetition frequency at levels below 500 Hz (500IMP/s) (column 10, lines 29-30) and a peak output voltage of the of the pulse in the range 0 to 130V (column 10, lines 12-20). Chency discloses at least one conductor tool comprising a frame of electrically conductive roller and a handle of electrically insulating material, the roller

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being mounted in electrically conductive communication with the frame, and means for electrically connecting the tool with a controlled electrical pulse (Fig. 1).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the teachings of Palermo to include at least one conductor tool comprising a frame of electrically conductive roller and a handle of electrically insulating material, the roller being mounted in electrically conductive communication with the frame, and means for electrically connecting the tool with a controlled electrical pulse, as taught by Cheney, as an alternate means of stimulation.

Referring to claim 25, Palermo in view of Cheney discloses the claimed invention except for wherein the range of pulse width levels includes 1/15000 (66µs). It would have been an obvious matter of design choice to one skilled in the art to modify the teachings of Palermo in view of Cheney to have the range of pulse width levels which includes 1/15000 (66µs), since applicant has not disclosed that the range of pulse width levels which includes 1/15000 (66µs) provides any criticality and/or unexpected results and it appears that the invention would perform equally well with any pulse width levels, such as the pulse width levels as taught by Palermo in view of Cheney, as a means of providing more efficient stimulation.

Referring to claim 27, Palermo discloses wherein the controlled parameters include the polarity of the electrical pulse (column 11, lines 57-67).

Referring to claim 28, Palermo discloses wherein the conductor tools include electrode pads (Fig. 1).

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Referring to claim 26, Palermo discloses wherein the pulse repetition frequency is controllable in a range of 1 Hz and 115 Hz (column 10, lines 29-30).

Referring to claim 29, Palermo in view of Cheney discloses the claimed invention except for wherein the conductor tools include electrode pads having an active area of about 60 mm by about 45 mm. It would have been an obvious matter of design choice to one having ordinary skill in the art to modify the device of Palermo in view of Cheney to include wherein the conductor tools include electrode pads having an active area of about 60 mm by about 45 mm, since applicant has not disclosed that a conductor tool that includes electrode pads having an active area of about 60 mm by about 45 mm provides any criticality and/or unexpected results and it appears that the invention would perform equally well with any size electrode pads, such as the electrode pads as taught by Palermo in view of Cheney, as a means to provide stimulation.

4. Claims 30 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Palermo et al. U.S. Patent No. 5,562,718 in view of Cheney U.S. Patent No. 1,557,417 as applied to claim 3 above, and further in view of Miller et al. U.S. Patent No. 4,846,181.

Referring to claim 30, Palermo in view of Cheney disclose the claimed invention except for further comprising a bath suitable for receiving and holding saline solution at a temperature of between about 36°C and 42°C. However, Miller discloses a bath suitable for receiving and holding saline solution (Fig. 2) at a temperature of between about 36°C and 42°C (column 13, lines 50-65) as an alternate means to promote tissue healing.

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It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the teachings of Palermo in view of Cheney, to include a bath suitable for receiving and holding saline solution at a temperature of between about 36°C and 42°C, as taught by Miller, as an alternate means to promote tissue healing.

Referring to claim 31, Palermo in view of Cheney and in further view of Miller discloses the claimed invention except for wherein the bath comprises a control panel for monitoring/or controlling inter alia the temperature of fluid contained therein. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device as taught by Palermo in view of Cheney and in further view of Miller, with a control panel for monitoring/or controlling the temperature of a fluid since it was well known in the art to have a control panel for monitoring/or controlling the temperature as a means ensuring the solution is not to cold or hot for the patient.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roderick Bradford whose telephone number is (703) 305-3287. The examiner can normally be reached on Monday - Friday 7 a.m. - 4 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Angela Sykes can be reached on (703) 308-5181. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9302.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0858.

R.B.

ANGELA D. SYKES SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3700

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